Electric Handpiece System Installation Guide

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UNPACKING

EQUIPMENT ALERT
To avoid damage, do not use a knife or sharp object to open packaging.

(1) Carefully remove all enclosed components from packaging and inspect for shipping damage. If damage is apparent, file a Concealed Damage Report with the carrier.

STANDARD HANDPIECE TUBING REMOVAL

NOTE
Determine which current handpiece position will be replaced with the Electric Handpiece System. Ask unit owner to indicate preferred placement.

(1) Press release button and lift cover of delivery unit. Using lid support rod, prop cover in fully open position.

(2) Disconnect two pieces of 1/8 in. handpiece tubing (1, Figure 1) from kink valve assembly (2).

(3) Disconnect 1/4 in. grey handpiece tubing (3) from 1/4 in. clear tubing (4).

(4) Cut cable tie (5); then disconnect 1/4 in. grey handpiece tubing (6) from connector fitting (7).

(5) Remove handpiece tubing (8) from delivery unit.

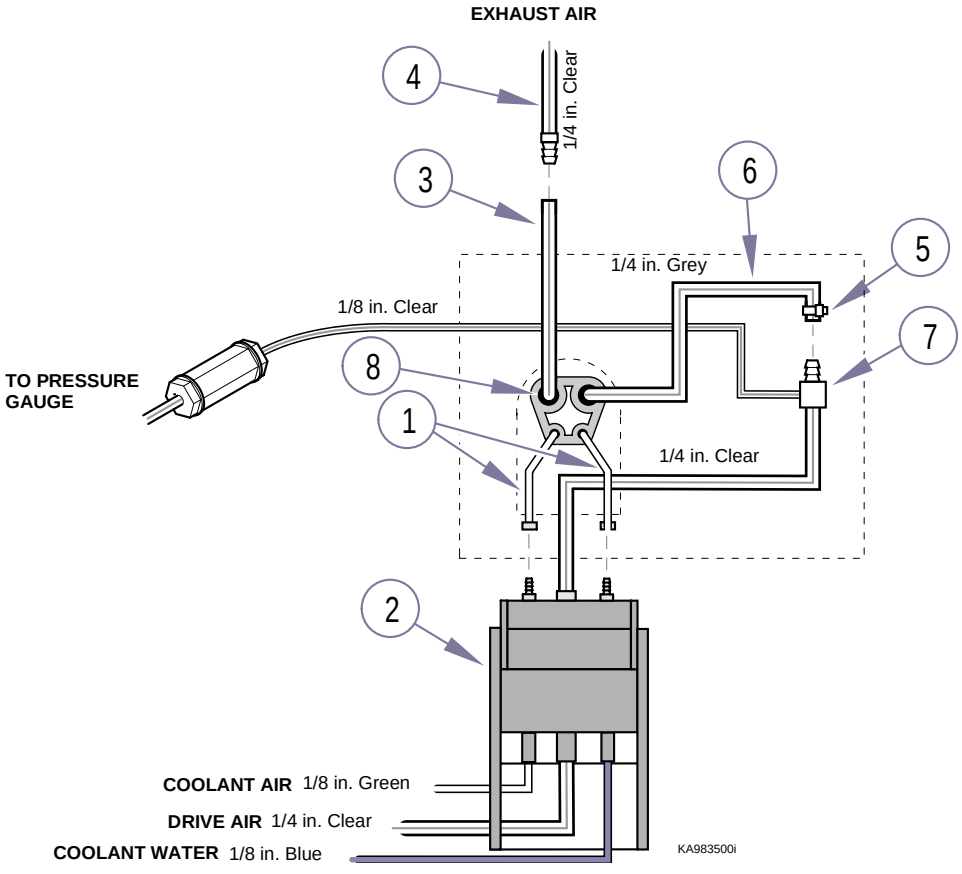

Figure 1. Standard Handpiece Tubing Removal

ELECTRIC HANDPIECE COMPONENTS INSTALLATION

NOTE
One of the two screws (3) will push down into top of control module when tightened; this is OK and will not damage the control module.

(1) Install electric handpiece bracket (1, Figure 2) on bottom side of delivery unit housing (2) and secure with two screws (3).

(2) Feed handpiece wire harness (4) up thru wire hole (A).

(3) Run electric handpiece tubing (5) up thru tubing hole (B) in delivery unit housing (2).

(4) Secure electric handpiece tubing (5) to delivery unit housing (2) with clamp pad (6) and cable tie (7).

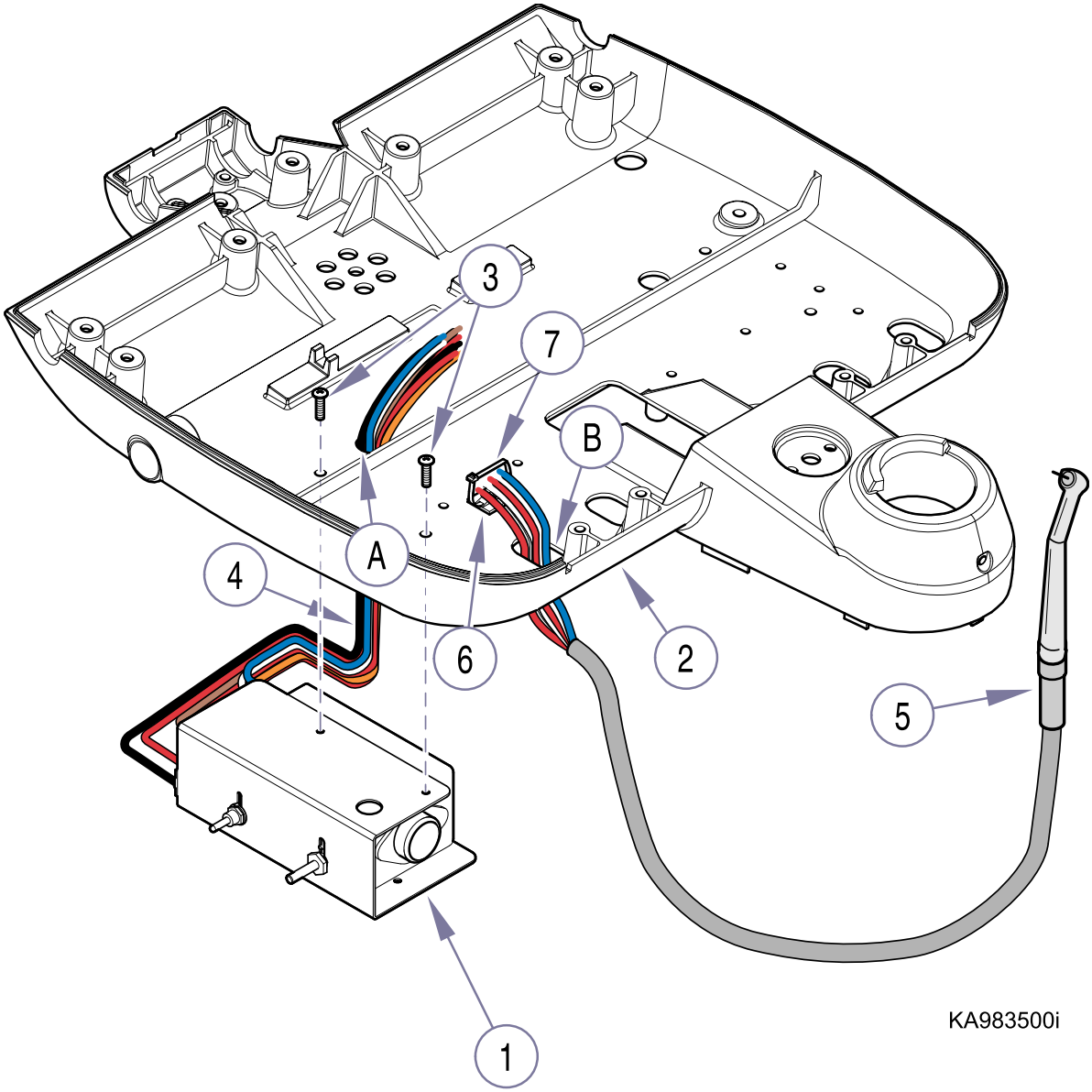

Figure 2. Scaler Components Installation

ELECTRIC HANDPIECE TUBING CONNECTIONS

NOTE
Install 1/4 in. sleeve clamps onto 1/4 in. tubing and 1/8 in. uni-clamps (included w/kit) onto 1/8 in. tubing before making connections in the following procedures.

In step 4, cut an approximately 2 in. length of 1/8 in. clear tubing from 1/8 in. tubing supplied with install kit.

(1) Connect 1/8 in. green tubing (1) ***[from electric handpiece tubing]*** to fitting (A) of kink valve (2). Secure tubing using 1/8 in. uni-clamp.

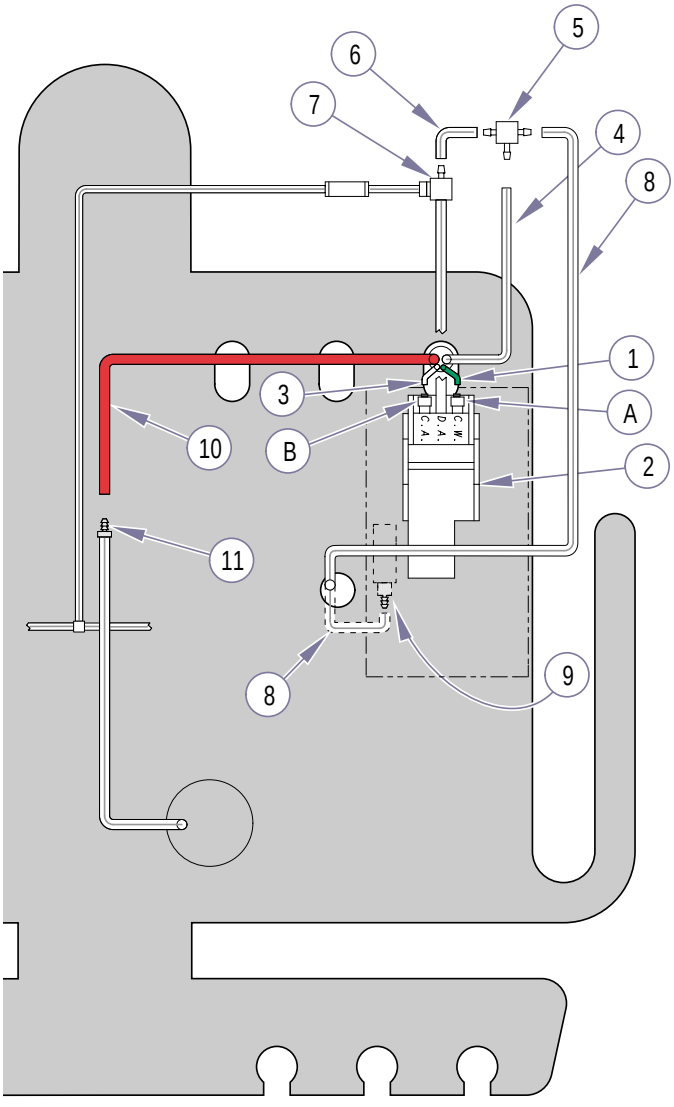

Figure 3. Scaler Tubing Connections

(2) Connect 1/8 in. white tubing (3) ***[from electric handpiece tubing]*** to fitting (B) of kink valve (2). Secure tubing using 1/8 in. uni-clamp.

(3) Connect 1/4 in. clear tubing (4) ***[from electric handpiece tubing]*** to tee (5) (provided with kit).

(4) Cut off a 2 in. (5 cm) length of tubing (6) from the 12 in. length of 1/4" clear tubing provided with kit.

NOTE
1/4 in. sleeve clamps are not necessary to secure tubing on plastic fitting; only on metal ones.

(5) Connect one end of 1/4 in. clear tubing (6) to tee (5) and the other end to fitting (7) ***[from drive air line of kink valve]***. Secure tubing using 1/4 in. O.D. sleeve clamp.

(6) Connect one end of 10" length of 1/4 " clear tubing (8) to tee (5) and the other end to fitting (9) ***[on Bien Air control module]***. Secure tubing using 1/4 in. O.D. sleeve clamp.

(7) Connect 1/4 in. red tubing (10) ***[from electric handpiece tubing]*** to fitting (11) ***[exhaust air line]***. Secure tubing using 1/4 in. O.D. sleeve clamp.

ELECTRIC HANDPIECE ELECTRICAL CONNECTIONS

(1) Connect black wire (1, Figure 4) ***[from pin#4 of connector A]*** to terminal (2) ***[labeled "0"]***. Secure wire by tightening terminal screw.

(2) Connect red wire (3) ***[from pin#3 of connector A]*** to terminal (4) ***[labeled "24V"]***. Secure wire by tightening terminal screw.

NOTE
To use wire connector (7), fully insert two unstripped wires into connector. Using pliers, squeeze wire spade (C) down onto two wires. Then, snap lid (D) shut to cover connections.

(3) Connect white wire (5) ***[from connector B]*** to blue wire (6) ***[provided in kit]*** with a connector (7).

(4) Connect white wire (8) ***[from connector B]*** to brown wire (9) ***[provided in kit]*** with a connector (7).

(5) Connect blue wire (6) to blue wire (10) ***[from electric handpiece tubing]*** with a connector (7).

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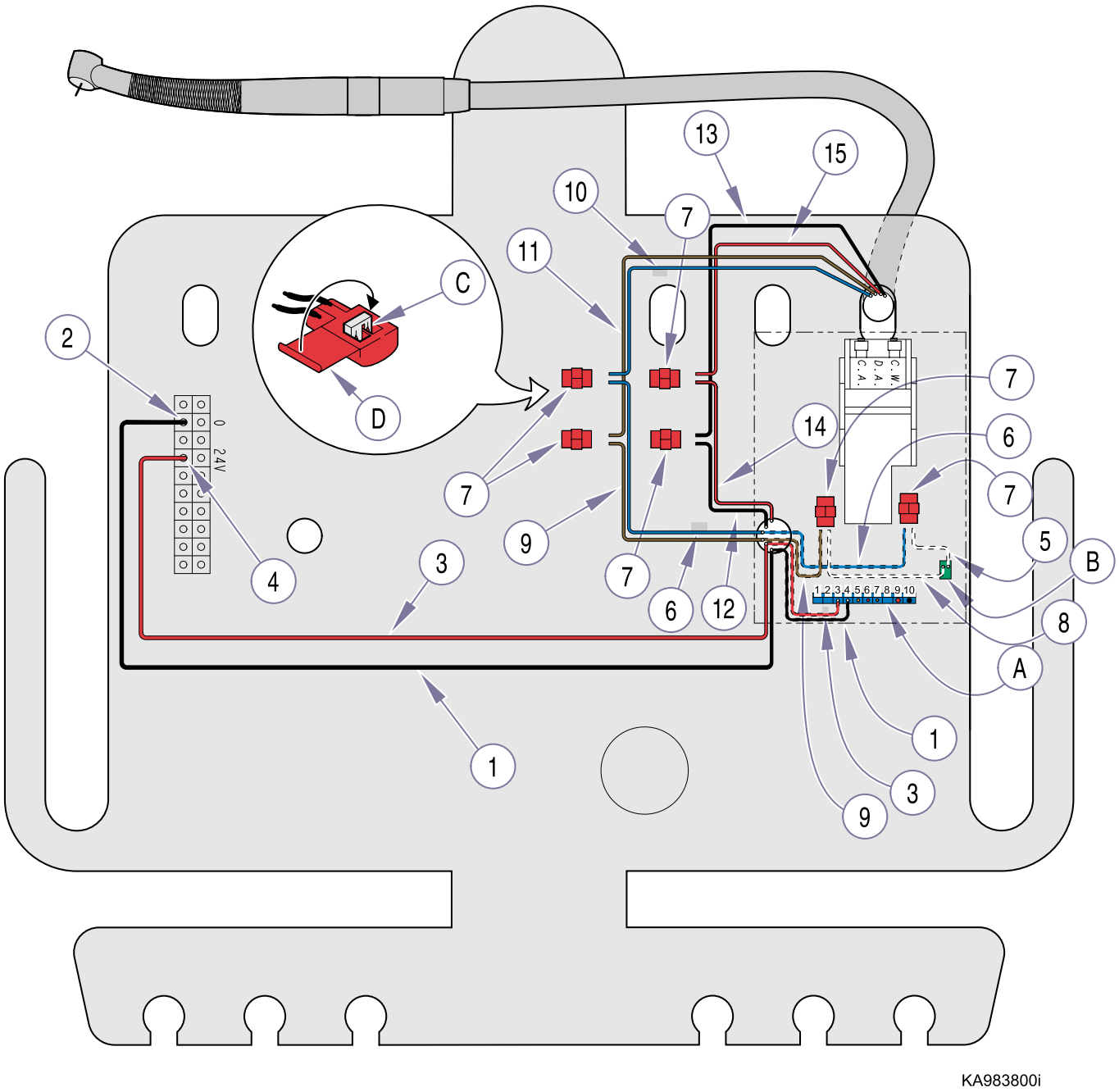

Figure 4. Handpiece Electrical Connections

(6) Connect brown wire (9) to brown wire (11) ***[from electric handpiece tubing]*** with a connector (7).

(7) Connect black wire (12) ***[from forward / reverse switch]*** to black wire (13) ***[from handpiece tubing]*** with a connector (7).

(8) Connect red wire (14) ***[from forward / reverse switch]*** to red wire (15) ***[from handpiece tubing]*** with a connector (7).

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COVERS AND KNOBS INSTALLATION

(1) Wire tie any wires or tubing up out of way as necessary.

(2) Install handpiece cover (1, Figure 5) on handpiece bracket (2) and secure with two screws (3).

(3) Install knob (4) on adjustment switch (5).

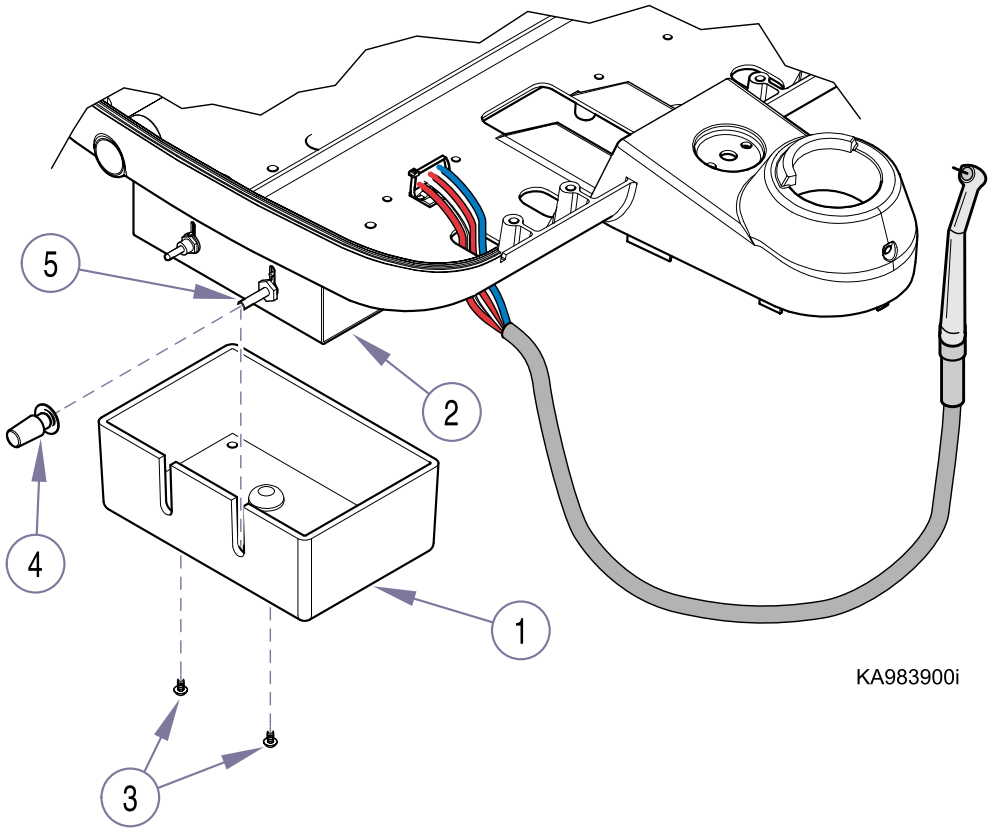

Figure 5. Covers and Knobs Installation

OPERATION

Refer to Bien Air Instruction Manual (supplied with this kit) for instructions on operation of this electric handpiece.

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